ABB BALDOR RELIANCE

# Customer information packet

## ECTM4115T-G-AO

50 AIR OVERHP, 1775RPM, 3PH, 60HZ, 326T, 1272
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEAO |
| **Frame** | 326T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 50.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 58.000 A @ 460.0 V |
| | 126.000 A @ 208.0 V |
| | 116.000 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 94.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | G |
| **Type** | AC |
| **Mech. spec.** | 12T111 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 12WGZ279 |
| **Layout** | 12LYT111 |
| **Eff. date** | 12-09-2025 |
| **CD Diagram** | CD0180 |
| **Poles** | 04 |
| **Leads** | 9#8 |
| **Proprietary** | False |
| **Created date** | 03-25-2022 |

| | |
|---|---|
| **Heater Indicator** | Heater Included, 115 V |
| **High Voltage Full Load Amps** | 58.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | H |
| **Lifting Lugs** | Vertical Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 6 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 1272M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 28.23 IN |
| **Power Factor** | 85 |
| **Product Family** | Chemical Processing (Not DC) |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 2.125 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1775 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP2178 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | ECTM4115T-G-AO | | | | | | | | | | |
| **SPEC.** | 12T111Z279G1 | | | | | | | | | | |
| **HP** | 50 AIR OVER | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | |
| **AMP** | 116/58 | | | | | | | | | | |
| **RPM** | 1775 | | | | | | | | | | |
| **FRAME** | 326T | **HZ** | 60 | **PH** | 3 | | | | | | |
| **SER.F.** | 1.15 | **CODE** | H | **DES** | A | **CL** | F | | | | |
| **NEMA-NOM-EFF** | 94.5 | **PF** | 85 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | | | | | | | | | | | |
| **DE** | 6312 | **ODE** | 6311 | | | | | | | | |
| **ENCL** | TEAO | **SN** | | | | | | | | | |
| | INV DUT 20:1 VT | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 86836
Preliminary Data Sheet

| **Winding:** 12WGZ279-R003 | **Type:** 1272M | **Enclosure:** TEAO |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 50 | **Full Load Torque** | 147.8 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 116/58 | **Breakdown Torque** | 475 LB-FT |
| **R.P.M.** | | | 1775 | **Pull-up Torque** | 210 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 240 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 413 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 20.8 A |
| **NEMA Nom. Eff.** | 94.5 | **Power Factor** | 85 | **Line-line Res. @ 25ºC** | 0.114 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 68°C |
| **S.F. Amps** | | | 132/68 | **Temp. Rise @ S.F. Load** | 88°C |
| | | | | **Locked-rotor Power Factor** | 29.7 |
| | | | | **Rotor inertia** | 9.59 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 50 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 52 | 73 | 82 | 86 | 87 | 87 | 87 |
| **Efficiency** | 91.5 | 94.4 | 94.8 | 94.6 | 94 | 93.2 | 94.1 |
| **Speed** | 1794 | 1788 | 1782 | 1776 | 1769 | 1761 | 1770 |
| **Line amperes** | 24.8 | 33.9 | 45.3 | 57.9 | 71.6 | 87.5 | 66.1 |

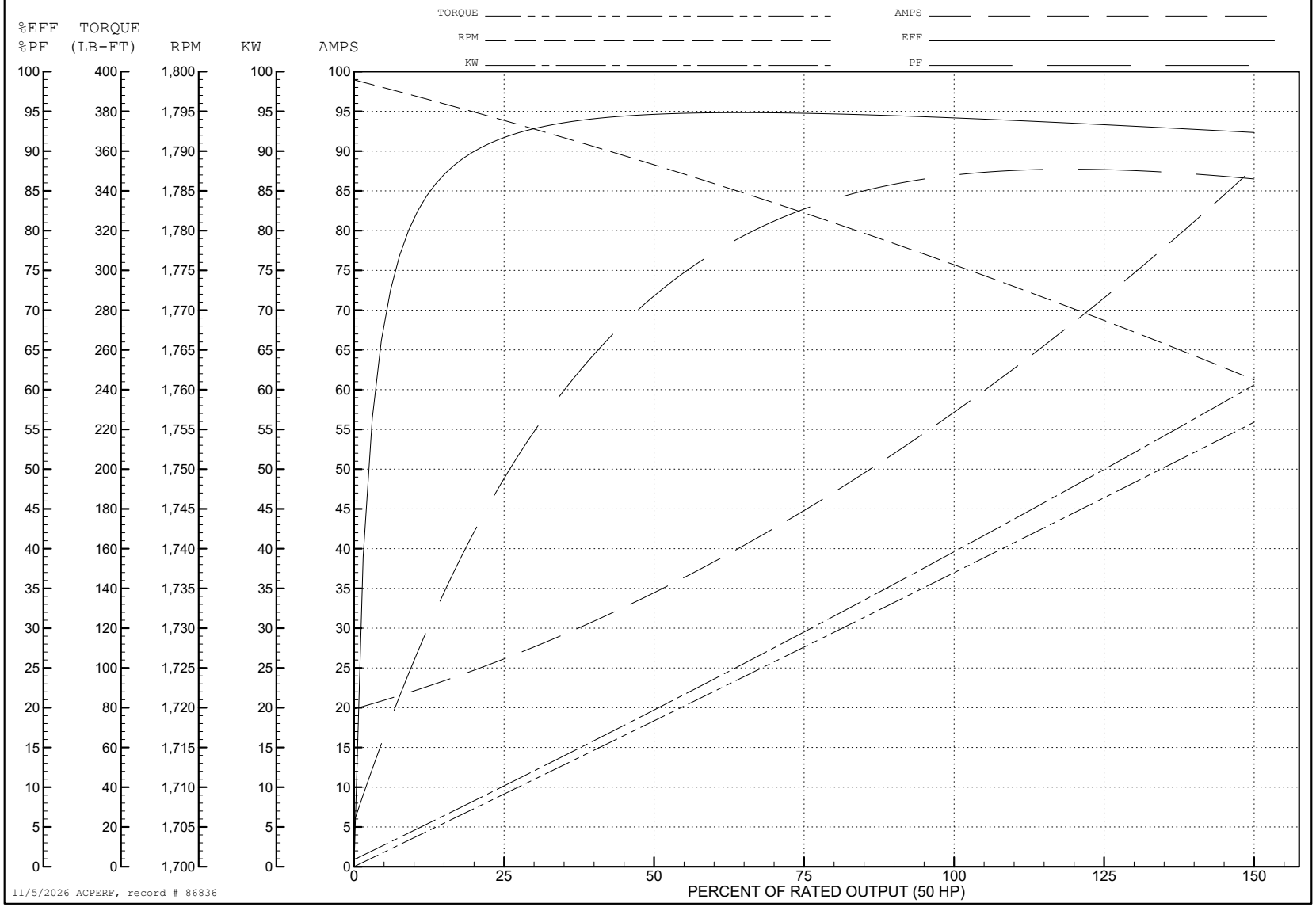
ABB Motors and Mechanical Inc.

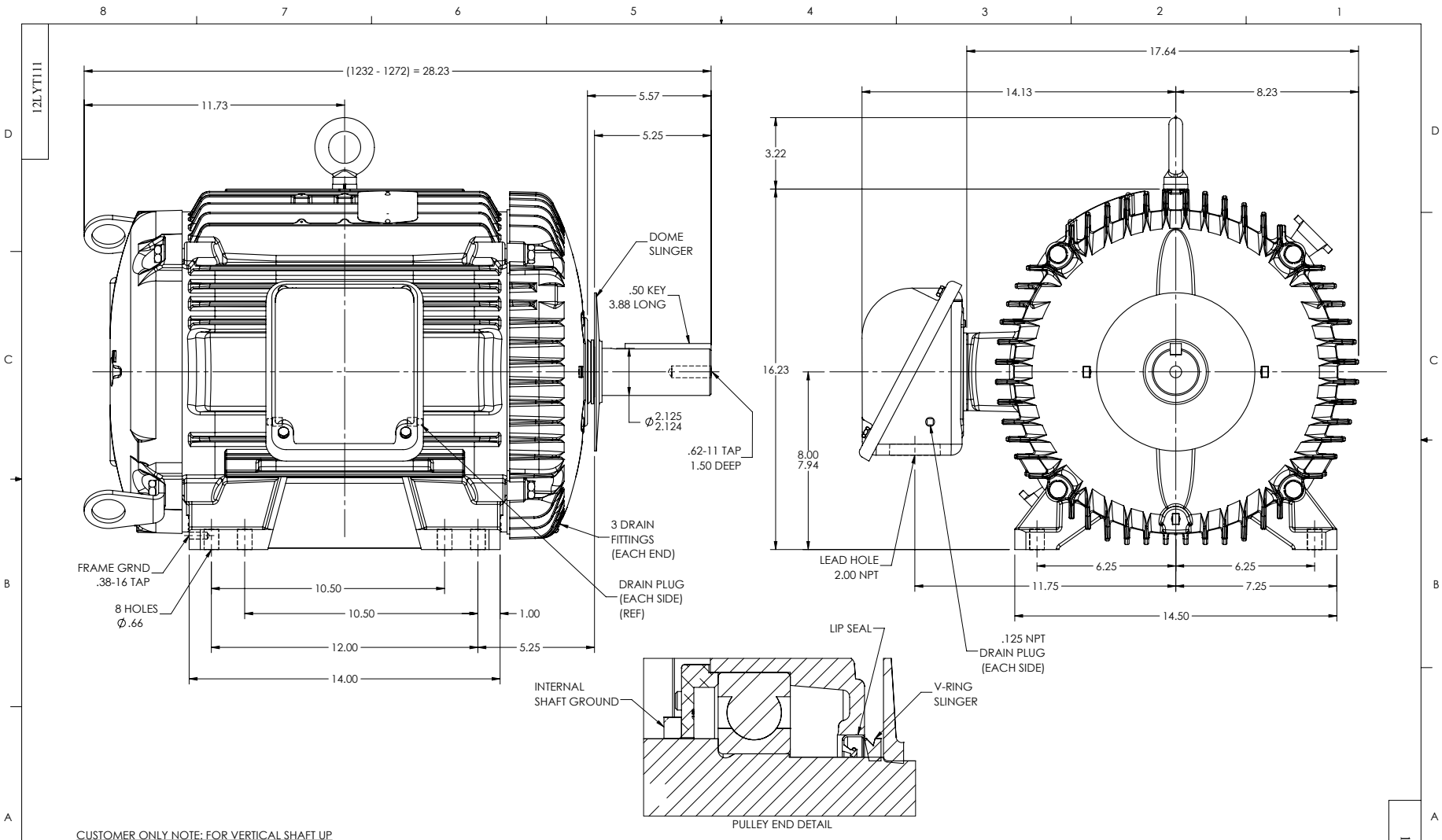
WINDING # 12WGZ279

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

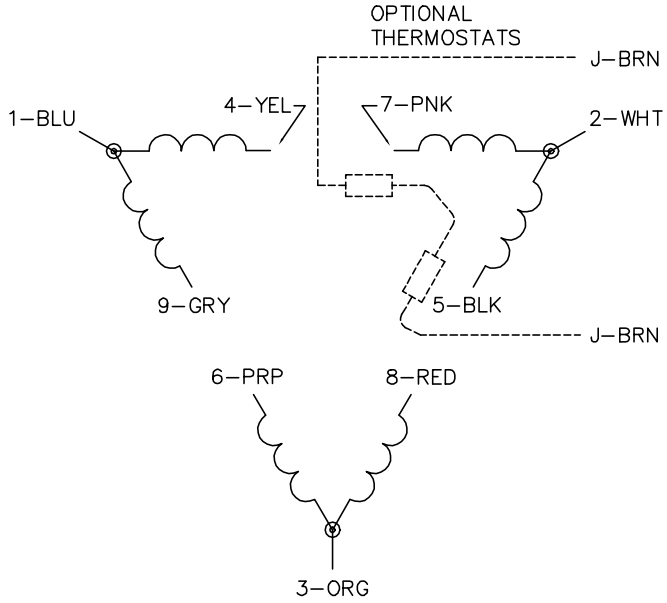
Typical performance - not guaranteed values.

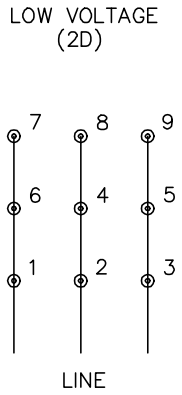
TORQUES(LB-FT): PO=475 PU=210 LR=240 LRA=413

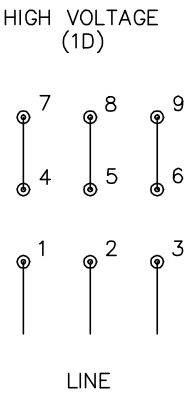



12LYT111
(1232 - 1272) = 28.23
11.73
5.57
5.25
DOME SLINGER
.50 KEY
3.88 LONG
Ø 2.125
2.124
.62-11 TAP
1.50 DEEP
3 DRAIN FITTINGS (EACH END)
DRAIN PLUG (EACH SIDE) (REF)
FRAME GRND .38-16 TAP
8 HOLES Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.64
14.13
8.23
3.22
16.23
8.00
7.94
LEAD HOLE 2.00 NPT
6.25
6.25
11.75
7.25
14.50
.125 NPT DRAIN PLUG (EACH SIDE)
LIP SEAL
INTERNAL SHAFT GROUND
V-RING SLINGER
PULLEY END DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW FOR CCT STOCK DEVELOPMENT
REV: - VERSION: 00 REVISED: 04:35:17 04/21/2022 TDR: 000001185763
MODEL NO. 12LYT111 REF: -
BY: ENFRAJ0 B
BALDOR - RELIANCE®
HORZ TEAO 324-6T CP COOLING TOWER,LIFT,SLD BRGS,SEAL,SH GND
12LYT111

CD0180




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

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|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\148 | REVISED: 10:25:29 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1